NC/QC/YPD-W-4/2018-19/AL-CB3A **Date: 26-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	26-03-19	28	22500	500	22.22	**22.89**
	002	''	"	''	"	530	23.56	
	003	''	"	''	"	515	22.89	

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NC/QC/YPD-W-4/2018-19/AL-CB4A **Date: 28-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	28-03-19	28	22500	510	22.67	**22.67**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	505	22.44	

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NC/QC/YPD-W-4/2018-19/AL-CB5A **Date: 29-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-03-19	29-03-19	28	22500	515	22.89	**23.19**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	530	23.56	

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NC/QC/YPD-W-4/2018-19/AL-K1 **Date: 14-03-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.80	**22.55**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.26	21.75		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.42	**4.54**
2	002	4.53	
3	003	4.68	

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NC/QC/YPD-W-4/2018-19/AL-K2 **Date: 16-03-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.85	**22.30**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.24	21.45		
3	003	3.32	22.60		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.23	**4.73**
2	002	5.01	
3	003	4.97	

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NC/QC/YPD-W-4/2018-19/AL-K3 **Date: 18-03-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.40	23.65	**22.54**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.29	22.21		
3	003	3.26	21.78		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.96	**5.07**
2	002	5.10	
3	003	5.16	

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NC/QC/YPD-W-4/2018-19/AL-G1 **Date: 25-02-2019**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**96.10**	70-100
9.50	**75.85**	50-80
4.75	**62.05**	40-65
2.36	**39.60**	30-50
0.425	**13.25**	10-15
0.075	**4.40**	<5

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Date: 25-02-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.37 %**	Not more than 2.0 %
2.	Liquid Limit, %	**19.45**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.08**	----------
5.	Aggregate Impact Value, %	**24.91**	Not more than 40.00 %

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NC/QC/YPD-W-4/2018-19/AL-C4 **Date: 27-02-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**259 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.11 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.12N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD-W-4/2018-19/AL-PCC3 **Date: 27-02-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**62.05**	0 -20	30- 70
10mm	**16.45**	0 -5	10- 35
4.75mm	**4.10**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.05**	60-95	75-100	85-100	
01.18	**64.50**	30-70	55-90	75-100	
600.mic	**44.00**	15-34	35-59	60-79	
300.mic	**12.15**	5-20	8-30	12-40	
150.mic	**5.25**	0-10	0-10	0-10	

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NC/QC/YPD-W-4/2018-19/AL-C5 **Date: 27-02-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : CHETTINAD
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**146 min**	Shall not be less than 30 min
2	Final setting time	**255 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.02 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.86 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD-W-4/2018-19/AL-PCC4 **Date: 27-02-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**57.65**	0 -20	30- 70
10mm	**31.85**	0 -5	10- 35
4.75mm	**3.40**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**80.70**	60-95	75-100	85-100	
01.18	**74.15**	30-70	55-90	75-100	
600.mic	**52.90**	15-34	35-59	60-79	
300.mic	**24.10**	5-20	8-30	12-40	
150.mic	**6.75**	0-10	0-10	0-10	

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NC/QC/YPD-W-4/2018-19/AL-CB6 **Date: 07-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	07	22500	370	16.44	**16.67**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

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NC/QC/YPD-W-4/2018-19/AL-CB7 Date: 07-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	07	22500	380	16.89	**16.96**
	002	''	"	''	"	390	17.33	
	003	''	"	''	"	375	16.67	

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NC/QC/YPD-W-4/2018-19/AL-CB8 **Date: 07-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Ambedkar nagara, LBS nagara and Allalasandra in Ward no. 04 of Yelahanka New Town).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Venkategowda. G, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	07	22500	360	16.00	**16.37**
	002	‘’	“	‘’	“	375	16.67	
	003	‘’	“	‘’	“	370	16.44	

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